App. A: Bolcome Decl., Ex. 8.1

## PROGRESS REPORT

## MODEL 721-722 FIRE CIVITAL AND SAFETY

#### INTRODUCTION

Three field complaints have been received which reported the K/21 wit active Rifle firing when the Safety is moved to the Folfs position. Two guns representing two of the complaints were tested at Ilion without it being possible to supreduce the defect.

It is, however, theoretically possible under very remote conditions to experience this problem and the Ilion Design Meeting of July 15, 1948, recommended the an immediate investigation be made to develop an alternate design which would eliminate the hazard.

#### OBJECTIVE

It has been the objective of this study to proper alternate design of the Model 721-722 fire control and sefety to allminate any hourstand position and to the gun firing when the safety is moved to the soff position and to maintain it is far as practical the present desirable features of the trigger.

The only apparent method of assuring a "fool-proof" design, in view of front at Patent No. 2,171,521 assigned to the Western Cartridge Company, has been the term sideration of Safeties which positively block the trigger.

### SUMMARY AND CONCLUSIONS:

Three elternate designs have been derived from this study as fallow:

Proposed Proposed Proposed Present Type III Design " Type I Type II (\$3,000 on all Proposed Design) \$ 7,800. \$12,900 121,380. \$29,358/100 \$30.588/100 834.105/100 \$34.038/100 \$29.238/100 \$25,565/100 125.268/100 \$27.262/100

# RECOLUTEN DATIONS

Standard Labor

Expenditures to Date

Standard Meterial

Expenditures to Complete

In view of the lawk of additional complaints covering the question of the Model 721 firing when moving the safe to the "off" position and the inability to duplicate the complaints received from the field, we recommend that action be considered as follows:

- 1. Consideration be given to maintaining the current M/721 trigger was is ....
- 2. If a charge is to be made to eliminate any remote theoretical possibility of the gun firing when moving the safe to the "off" position, we consider type I which in our opinion is the best design. Its disacvantages lay in the high expenditure required to make the conversion.
- 3. Consideration of the Type III design for the lowest product cost with adequate safety.
- 4. Last, the consideration of the Type II design. A therd safety would always be provalent in this version as well as high product cost. This design is presented primarily to give Sales an opportunity to maintain their advertising feature of the safety blocking the firing pin.

"If a change is to be made to eliminate any remote theoretical possibility of the gun firing when moving the safe to the "off" position, we consider Type I which in our opinion is the best design. Its disadvantages lay in the high expenditure required to make the conversion."

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DSF: 111.

Case 4:13-cv-00086-ODS Document 196-16 Filed 01/30/17 Page 3 of 3